

1,061,465.

Patented May 13, 1913.

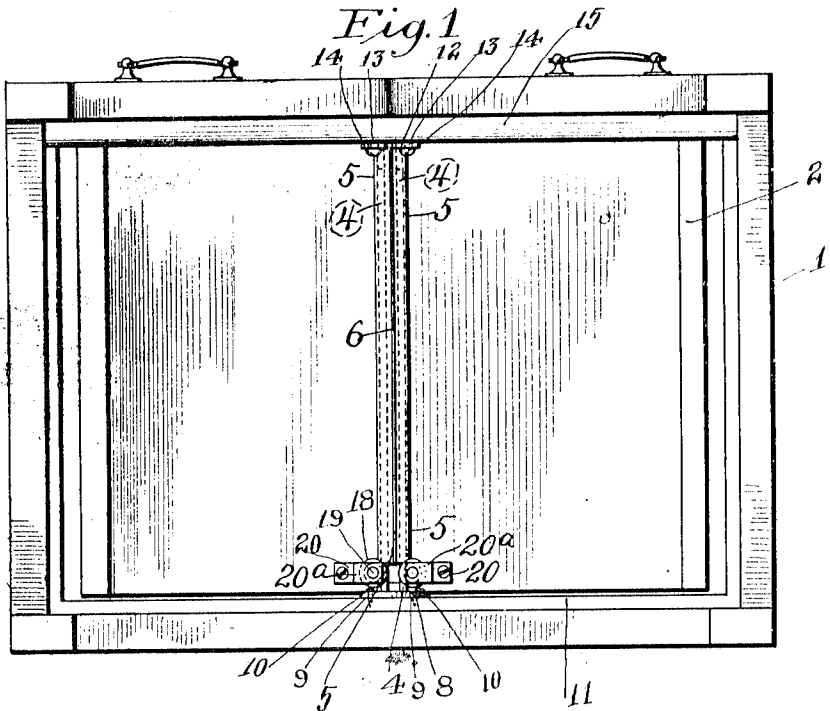


Fig. 3.

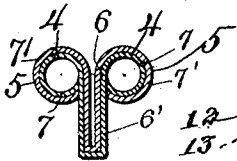


Fig. 2.

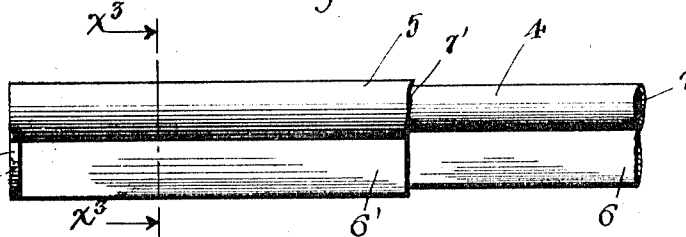


Fig. 4.

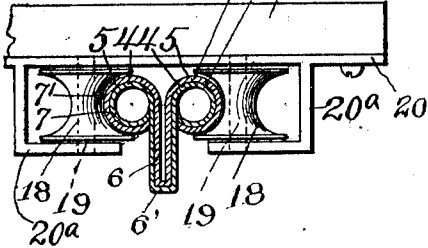


Fig. 6.

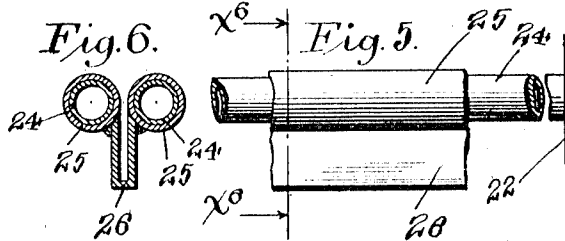
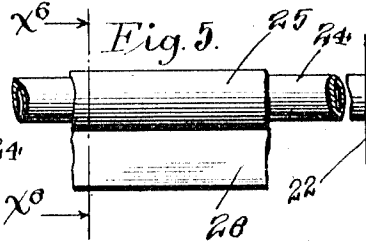


Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

JESSE D. FRYER, OF ALHAMBRA, CALIFORNIA.

DRAWER-GUIDE.

1,061,465.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed February 15, 1912. Serial No. 677,768.

To all whom it may concern:

Be it known that I, JESSE D. FRYER, a citizen of the United States of America, residing at Alhambra, in the county of Los Angeles and State of California, have invented a new and useful Drawer-Guide, of which the following is a specification.

This invention relates to means for guiding the drawers of tables, bureaus, or other furniture, and the main object of the invention is to provide means for this purpose which will reduce the friction to a minimum and prevent binding or cramping of the drawers when being moved in or out.

A further object of the invention is to provide drawer guide means which can be adjusted or extended to any width or depth of the drawer from front to back.

Other objects of the invention will appear hereinafter.

The accompanying drawings illustrate embodiments of the invention, and referring thereto—Figure 1 is an inverted plan of a drawer and the frame for receiving or containing the same. Fig. 2 is a partial side elevation of the guide. Fig. 3 is a transverse section on the line x^3-x^3 , Fig. 2. Fig. 4 is an end elevation of the guide and guide rollers thereon. Fig. 5 is a side elevation showing a modified construction of the guide. Fig. 6 is a section on the line x^6-x^6 , Fig. 5.

The article of furniture, such as a bureau, comprises a frame 1 for receiving the drawer 2, said drawer being entered through a suitable opening in the front of the frame, but being out of contact with the frame, except at said opening, and being supported and guided by the guide means hereinafter described.

The guide means comprises a guide consisting of two telescoping guide members 4 and 5. In the form shown in Figs. 1 to 4 each of said telescoping guide members is formed with a central web portion and two surmounting tubular portions, the inner guide member 4 being formed of sheet metal bent with a U-shaped central depending web portion 6 having its ends rolled over to form a pair of surmounting outturned tubular portions 7, and the outer guide member 5 being formed of sheet metal with a U-shaped central depending web portion 6' receiving the web portion of the inner guide member and with its ends rolled over to form a pair of surmounting outturned tubular por-

tions 7'. The U-shaped portion 6' of the outer guide member 5 slides upon the U-shaped portion 6 of the inner guide member 4, and the tubular portions 7' of the outer guide member 5 extend around and telescope over the tubular portions 7 of the inner guide member 4, so that the two guide members are in sliding contact throughout, whereby a construction of extreme stiffness and strength is secured with minimum weight.

The inner guide member 4 is provided at one end with transversely extending flanges 8 beneath the tubular portions 7 provided with a pair of eyes or openings 9 to receive fastening screws 10, whereby the said inner guide member may be fastened to the frame 1 at the front or back of the drawer receiving space, preferably to the cleat 11 extending below the drawer, say at the rear thereof. The outer guide member 5 is similarly provided with a flange or plate 12 at one end thereof beneath the tubular portions 7, having a pair of eyes 13 to receive fastening screws 14, whereby it is secured to a cleat 15 in the frame 1, say at the front of the drawer-receiving space.

The drawer 2 is provided with means movably engaging the guide means above described, and consisting of rollers 18 mounted by pivot-studs 19 in a metal bracket 20 formed with a flat plate affixed to the bottom of the drawer and right angle hangers 20^a oppositely arranged and spaced from the ends of the bracket, the peripheries of the said rollers 18 being formed with concavely curved flanges adapted to fit the tubular portions 7 and 7' of the guide members 4 and 5, and said rollers being on opposite sides of the guide so as to brace the guide between them and hold the drawer from displacement laterally in either direction, as well as from vertical displacement.

The device may be adjusted to any width of drawer within a considerable range by sliding out or extending the telescoping members to the required amount. When the guide has been fastened in the position in the manner stated, it forms a support and guide for the rear portion of the drawer, the rollers 18 rolling on the tubular portions 7 and 7' of the guide and supporting the drawer in such manner that it cannot swerve to either side when moving in or out, thereby preventing cramping or binding of

the drawer. The application of this drawer guide also does away with considerable cabinet work in forming the guide-ways for the drawer and the guide is more readily and quickly applied than the wooden guides in general use.

The telescoping guides may be formed otherwise than as above described. For example as shown in Figs. 5 and 6 the inner guide members may be formed as tubes telescoping within tubular portions of the outer guide member, said portions being rigidly connected by a U-shaped depending web member 26. In this case the two tubular members 24 are connected at one end to a plate 22, whereby they are secured to the frame at the rear end of the drawer, said members 24 taking the place of the single member 4 aforesaid. The operation of this form of the invention is substantially the same as above described.

What I claim is:

1. The combination with a frame having a drawer opening and a drawer slidable in said drawer opening; of a twin drawer guide for supporting the drawer; comprising two telescoping double guide members, the inner double guide member being formed with a pair of tubular portions and at one end with transversely extending flanges located beneath the tubular portions and secured to the frame, and the outer double guide member being formed with a folded U shaped central depending portion surmounted by a pair of outturned tubular portions fitting around the tubular portions of the inner double guide member, and having at one end transversely extending flanges located beneath the tubular portions and secured to the frame, and the double bracket secured to the drawer and consisting of a flat plate having depending right angle hangers, oppositely arranged and spaced from the ends of the bracket, and a

pair of rollers having concavely curved flanges, mounted in the bracket and hangers and adapted to travel on the outer side of the paired tubular portions of the inner and outer double guide members.

2. The combination with a frame having a drawer opening and a drawer slidable in said drawer opening; of a twin drawer guide for supporting the drawer, comprising two telescoping double guide members, the inner double guide member being formed with a folded U-shaped central depending portion surmounted by a pair of outturned tubular portions and at one end with transversely extending flanges located beneath the tubular portions and secured to the frame, and the outer double guide member being formed with a folded U shaped central depending portion fitting in the central depending portion of the inner double guide member and surmounted by a pair of outturned tubular portions fitting around the tubular portions of the inner double guide member, and having at one end transversely extending flanges located beneath the tubular portions and secured to the frame, and the double bracket secured to the drawer and consisting of a flat plate having depending right angle hangers oppositely arranged and spaced from the ends of the bracket, and a pair of rollers having concavely curved flanges, mounted in the bracket and hangers and adapted to travel on the outer side of the paired tubular portions of the inner and outer double guide members.

In testimony whereof, I have hereunto set my hand at Los Angeles, California this 9th day of February 1912.

JESSE D. FRYER.

In presence of—

A. P. KNIGHT,
GLADYS RUSSELL.